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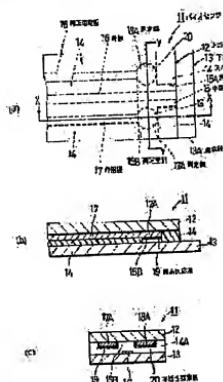
(54) BIOSENSOR

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a biosensor which can introduce a sample solution quickly to an introduction space and can be manufactured with ease.

SOLUTION: An operating electrode 17 and a correction electrode 18 are formed to be parallel to each other on a lower face of an upper glass substrate 12. An opposite electrode 16 is formed at an upper face of a lower glass substrate 13. The upper and lower glass substrates 12, 13 are bonded via a spacer 14 so that the operating electrode 17, correction electrode 18 and opposite electrode 16 are exposed in a hollow part 15 defined by a T-shaped notch in the

spacer 14 and upper and lower glass substrates 12, 13. At the same time, the operating electrode 17 and correction electrode 18, and the opposite electrode 16 are arranged not to overlap with each other on a plane. In the structure, a sample solution introduced from a sample solution introduction port 15A is easily sent into a measurement space 15B by a capillary phenomenon without being influenced by the water repellency of the opposite electrode. Accordingly, a concentration can be measured quickly.



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English translation of "Brief Description of the Drawings" of JP
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Brief Description of the Drawings

[Figure 1]

Figure 1 (a) is a plain view of the biosensor of an embodiment according to
the present invention.

Figure 1 (b) is a sectional view taken along line X-X of Figure 1 (a).

Figure 1 (c) is a sectional view taken along line Y-Y of Figure 1 (a).

[Figure 2]

Figure 2 (a) is a plain view of a conventional biosensor.

Figure 2 (b) is a sectional view taken along line A-A of Figure 2 (a).

Figure 2 (c) is a plain view showing an opposite electrode.

Explanations of Letters or Numerals

11. a biosensor
12. an upper glass substrate
13. a lower glass substrate
14. a spacer
15. a hollow part
- 15A. a sample solution introduction port
- 15B. a measurement space
16. a counter electrode
17. a working electrode
- 17A. a measurement part
18. a calibration electrode
- 18A. a measurement part
19. an enzyme-reaction layer
20. an inactivate enzyme-layer